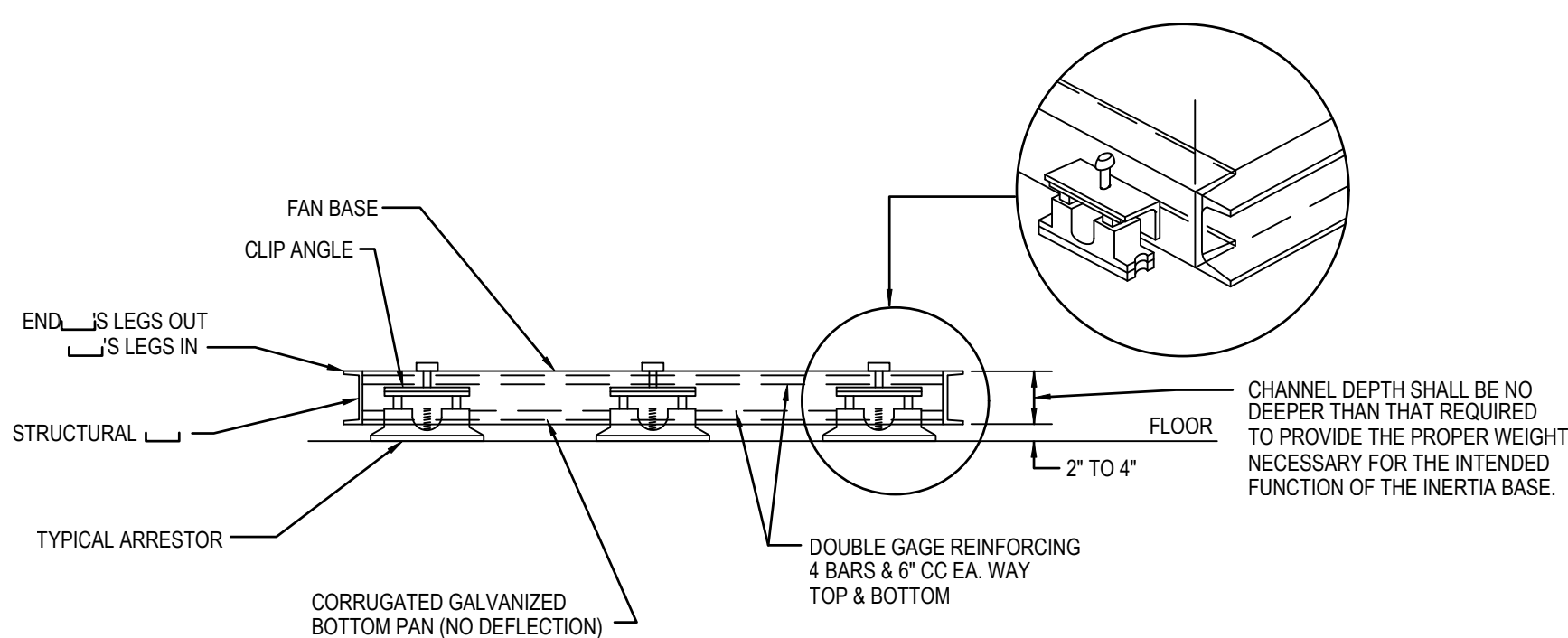


1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

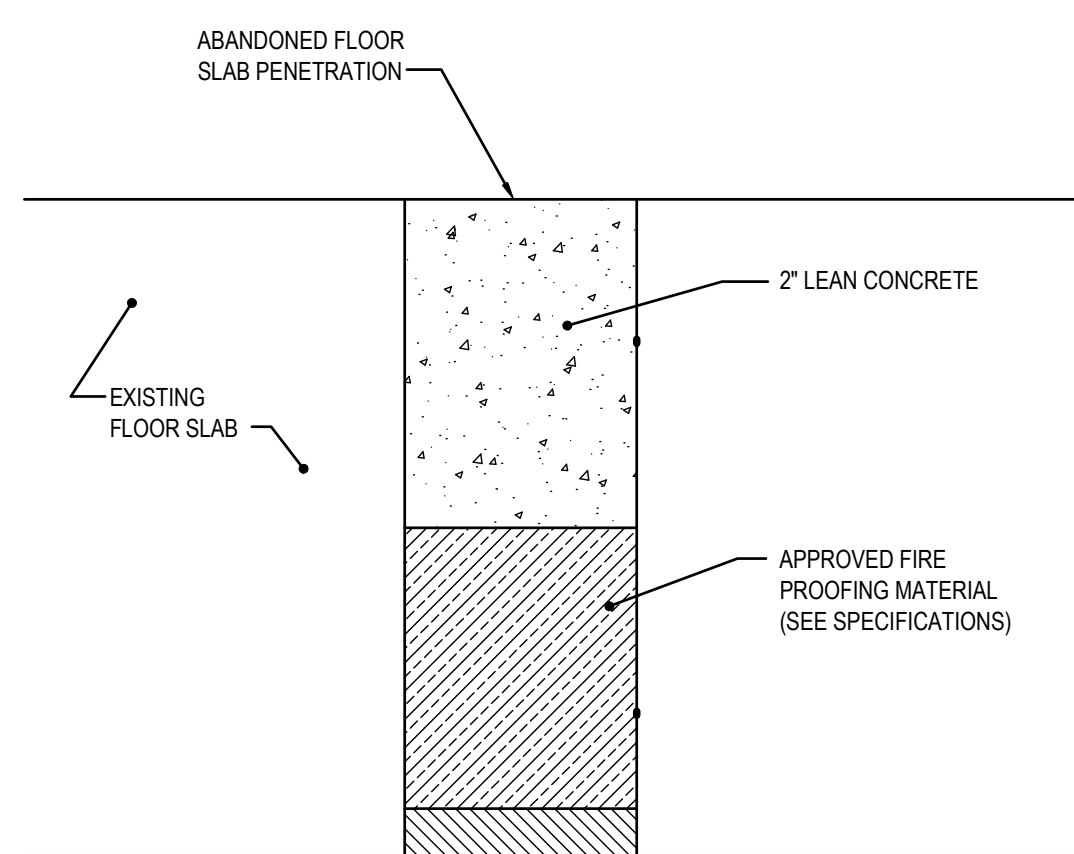
FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE

4 AIR HANDLING UNIT CONDENSATE DRAIN TRAP PIPING DETAIL



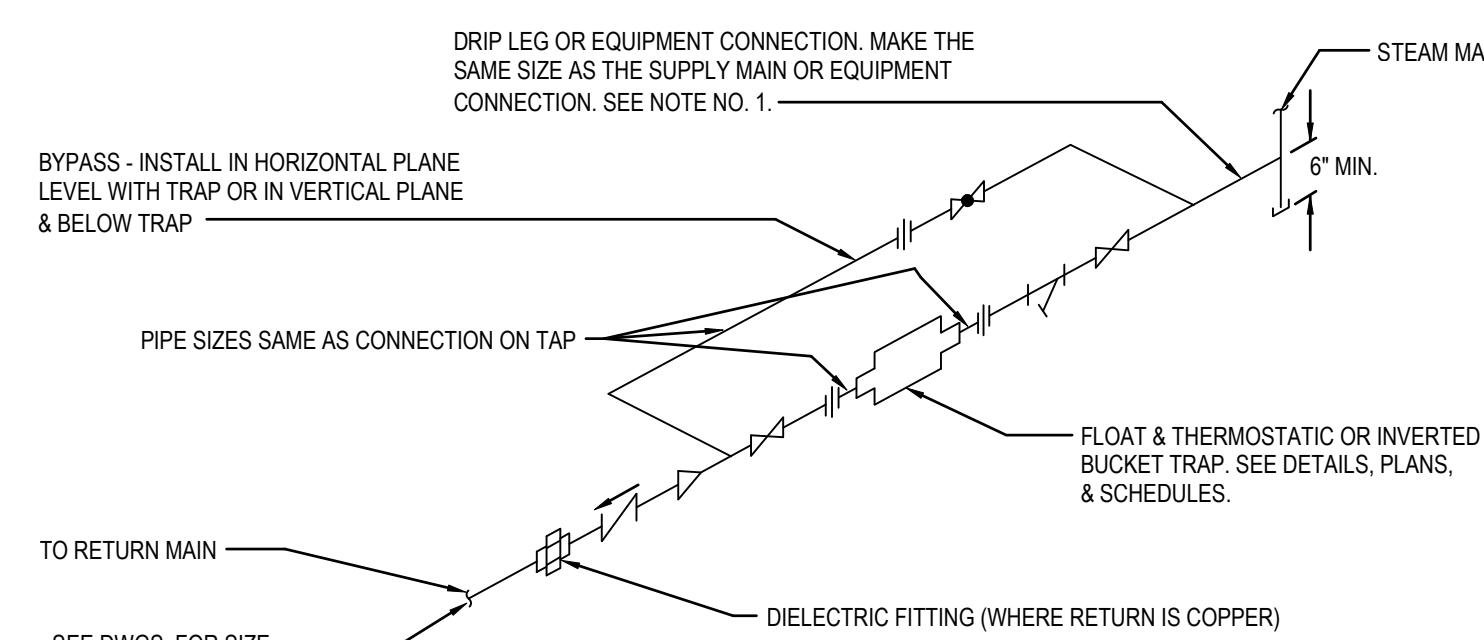
1. DRIP POCKET PIPE SIZE SAME AS STEAM MAIN UNLESS OTHERWISE NOTED

1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAM'S AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



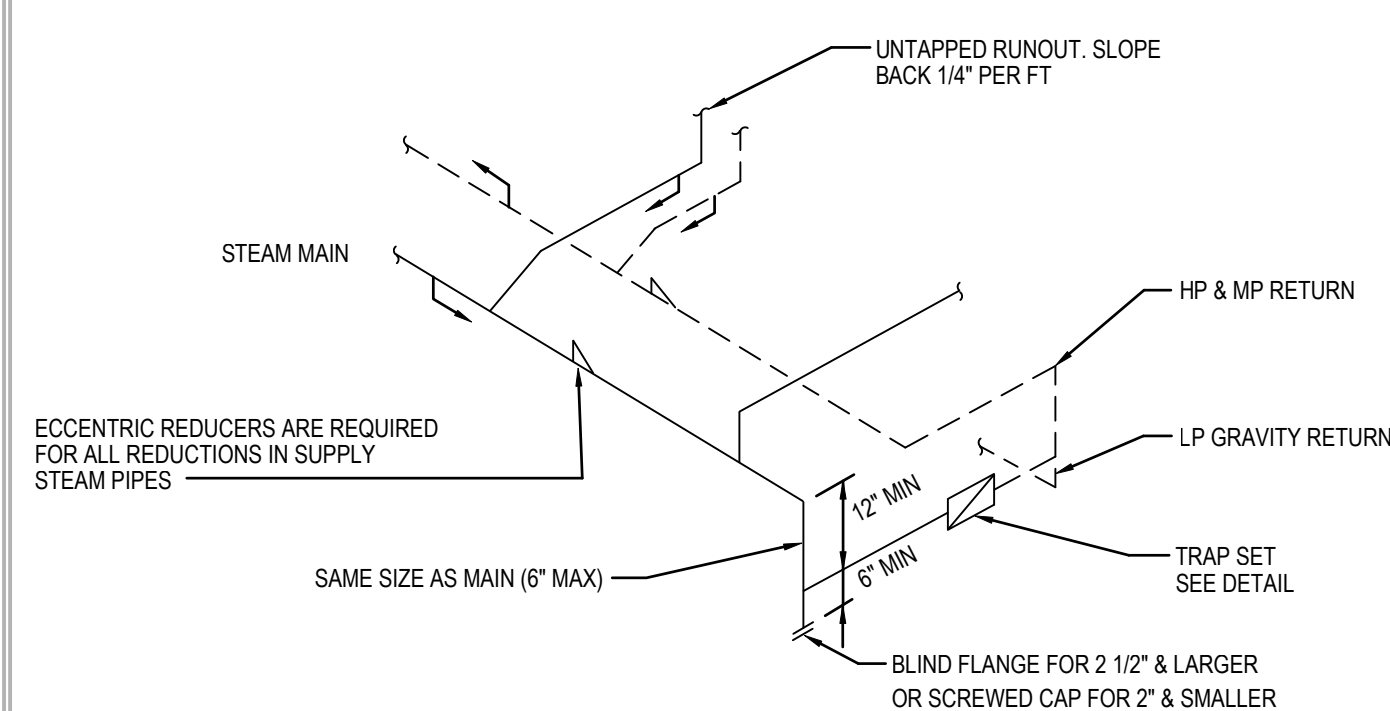
THE CONTRACTOR SHALL SEAL ABANDONED FLOOR SLAB PENETRATIONS AS DETAILED IN A MANNER TO MAINTAIN THE TIME/FIRE RATED CONSTRUCTION.

8 FLOOR SLAB PATCHING DETAIL FOR REMOVED PIPE PENETRATIONS
NO SCALE



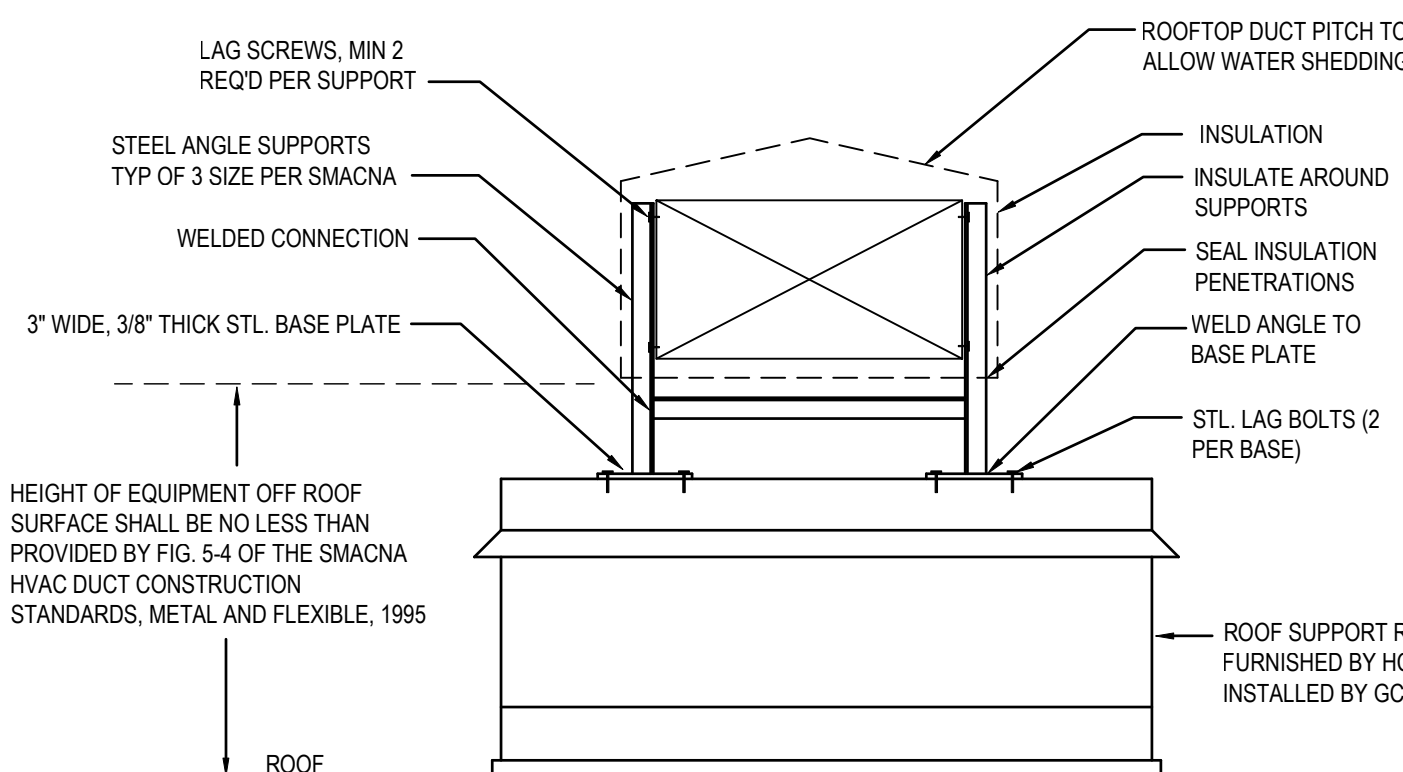
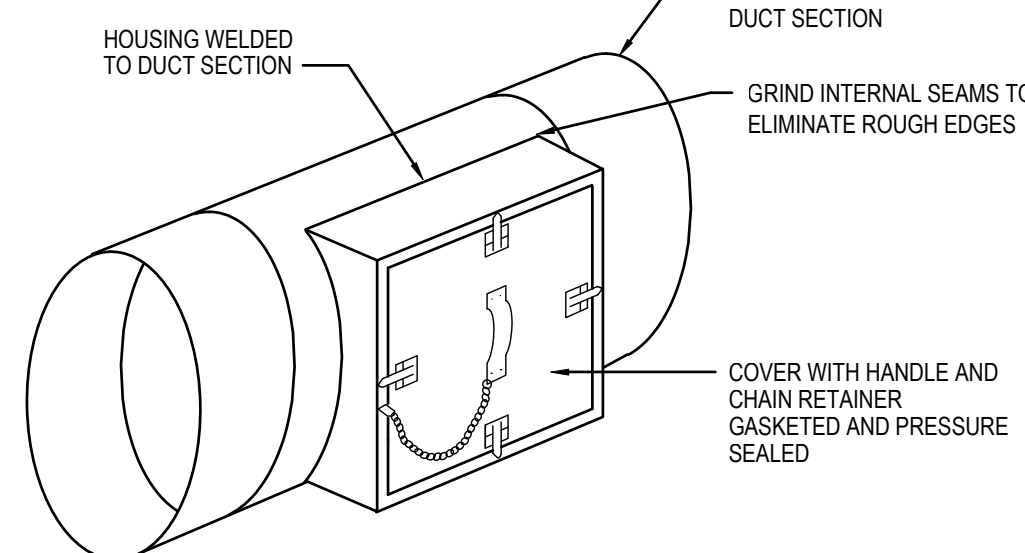
1. DIMENSIONS SHOWN IN SCHEDULE ARE MINIMUM REQUIRED. IF MANUFACTURER OF FURNISHED WATER FLOW MEASURING DEVICE RECOMMENDS A GREATER DIMENSION, USE THEIR RECOMMENDATION.
2. INSTALL THE WATER FLOW MEASURING DEVICE SO THE FLOW ARROW IS IN THE SAME DIRECTION AS THE FLOW.
3. THE WATER FLOW MEASURING DEVICE MAY BE INSTALLED IN EITHER HORIZONTAL OR VERTICAL PIPE. UNITS REQUIRING REMOTE METERS SHALL HAVE THE METER CONNECTIONS LOCATED 12" OR NEARER THE SIDE WHEN INSTALLED IN HORIZONTAL PIPE. SEE SECTION "A-A". THE METER CONNECTIONS CAN BE INSTALLED IN ANY POSITION WHEN INSTALLED IN VERTICAL PIPE.

1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.
2. NO BYPASS IS REQUIRED ON THE TRAP SET PROVIDED FOR THE DRIPPING OF LOW PRESSURE SUPPLY MAINS (15 PSIG OR LESS).
3. NO CHECK VALVE IS REQUIRED FOR LOW PRESSURE STEAM SYSTEM WITH GRAVITY RETURN.
4. NO BYPASS OR STRAINER IS REQUIRED ON TRAP SETS IN PARALLEL FOR PRE-HEAT COILS. ONLY ONE CHECK VALVE & ONE DIELECTRIC FITTING IS REQUIRED.

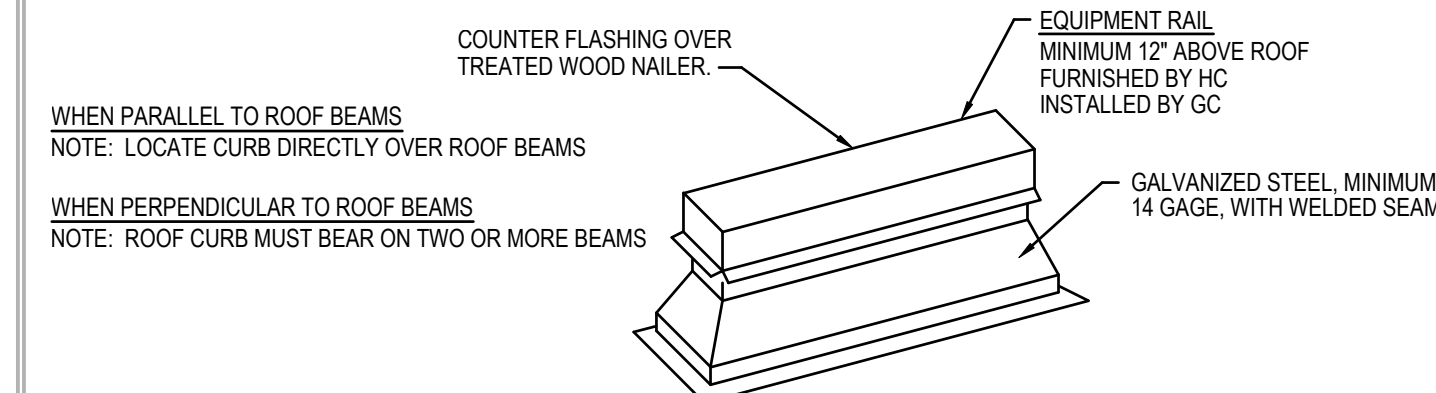


NOTES:

1. SLOPE MAINS & BRANCHES DOWN 1" PER 40 FEET IN DIRECTION OF FLOW UNLESS SHOWN OTHERWISE.
2. LIMIT UNTRAPPED, COUNTER FLOW, RUNOUTS TO 10 FEET MAXIMUM. COUNTER FLOW RUN OUTS SHALL BE OVERSIZED BY ONE PIPE SIZE.




NOTE: HOT DIPPED GALVANIZED FASTENERS, STEEL SHAPES, AND SUPPORTS SHALL BE USED.



ISSUED FOR BIDS - JUNE 10, 2009

14 EQUIPMENT RAIL FOR ROOF MOUNTING
NO SCALE

 Department of
Veterans Affairs